XT-3

Designed to Perform

NEW

The 8 Channel Server

EVS

Production & Media Server

XT3

More Power. More Channels. More Capabilities.

The new generation of XT servers, with its flexible 8 channel SD/HD & 6 channel 3D/1080p configuration, combines EVS' world-class speed & reliability with the ultimate capabilities and performance.

XT3 integrates today's top broadcast and IT technologies to offer broadcasters and producers unparalleled motion control and adaptability.

Based on its unique Loop Recording technology and its powerful networking capabilities, XT3 offers operators complete media control from ingest to playout, including live editing, slow-motion replays, multi-channels playback, and transfer to third-party systems such as craft editors, automation, archiving, or storage.

The XT3 is the first server to natively support such a wide range of codecs without requiring hardware changes, allowing production teams to easily choose amongst the different compression schemes they want to use throughout the entire edit process. Designed to boost broadcasters' live and near-live production capabilities, the XT3 provides operators with the highest level of bandwidth, flexibility and control available in the industry today.

Main Applications

- Live OB/Remote production
- Studio ingest
- Live studio production
- Content control & delay
- Fast turnaround production
- Scenarized production
- VTR replacement

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Loop Recording

EVS ingest solutions and loop recording guarantee uninterrupted multi-channel recording and access to recorded material at any time. Recording starts as soon as the server is booted, and remains on until the server is shut down. Recording capacity can be configured separately for each recording channel. Selected sequences can be protected and kept for as long as required without interrupting the recording process. Material can be recorded on internal or external disks.

Dual Networking

The XT3 can be linked to either one of two separate networks:

The EVS high-bandwidth media sharing network called XNet[2], which allows all video and audio sources recorded on any server connected to the network to be instantly accessible to operators without any interruption of the recording process. The XNet[2] is used mainly for critical transfers during live productions.

The XT3 also offers advanced gigabit Ethernet network capabilities, so that operators can browse and preview content stored on the server and transfer media files directly to third-party systems.

Key Features

- Up to 8 SD/HD Video Channels
- 6 Full 3D/1080p Video Channels
- Up to 550 Mbps Bitrate per Video Channel
- Mix on One Channel Capabilities
- 2 Chassis Versions 6RU & 4RU for Maximum Flexibility
- 3D SuperMotion
- Ready for 3G SDTI Network

Main Capabilities

Multi-Channel Ingest & Playout

The XT3 supports up to 8 HD channels with flexible configuration. It provides secure multi-channel ingest capabilities for audio/video content from any source, including cameras, super/ultra motion cameras, satellite, craft editors, graphic tools, video recorders or video tape recorders. With its DualPower inside technology, the XT3 can be configured to support up to 6 3D/1080p channels (in single 3G link or dual link) in any In/Out combination, with SuperMotion 3D control.

Based on EVS unique multi-channel loop recording technology, any audio/video recorded material can be instantly used for replay or transfer to production or post production along with the other associated angles, offering additional flexibility to your creative teams.

Flexible Configuration

The XT3 platform can be set up to play or record with up to 8 SD/HD channels configurable in any type of IN/OUT mode and up to 96 audio tracks per system. Switching between NTSC, PAL, 3D, 720p, 1080i and 1080p is quick and easy. The XT3 also fully and natively supports most popular SD and HD codecs, including MJPEG, IMX, DVCPRO 50, MPEG-2 intra for HD, Avid DNxHD® codec, ProRes 422 and ProRes 422 HQ, DVCPRO HD, and AVC-Intra. The codec configuration is based on software operations and requests absolutely no hardware change. By adding XT3 servers to the production network, users can easily select the number of ingest and playout channels they need.

Reliable Architecture

The XT3 hardware and software were designed by highly-skilled EVS engineers based on customer feedback and has now become the most reliable and field-proven live production solution on the market. The XT3 is designed with advanced security features such as RAID technology, redundant and hot-swappable power supplies, as well as internal and external hot swap disk array to guarantee that there will be no operational failures during production. Faulty disks are automatically replaced by pre-installed hot spare disks, without disrupting the server or harming the bandwidth.

EVS Control

The XT3 production server is complemented by a set of live and near-live hardware and software production tools, providing broadcasters with a fine-tuned solution for accessing and managing their media. IPDirector and LSM Remote give you full control of the XT3 server for ingest, slow motion replays, metadata management, production network control, on-the-fly editing, media transfer, and playout. EVS also offers a set of highly flexible archiving and storage hardware and software tools that can be adapted to your individual production needs.

Third-Party Control

The system can be fully controlled by switcher and controllers, automation systems or edit controllers, for channel control and direct access to the record/play channels. The XT3 accepts most popular control protocols, such as VDCP, Odetics, Sony BVW75, and Thomson XtenDD-35. EVS proposes its own API for easy integration with third-party applications: AVSP for RS-422 integration and LinX API for TCP/IP integration.

Third-Party integration

Based on its open architecture platform, the XT3 can be easily integrated with virtually all third-party tools and most popular craft editors, including Avid Media Composer, Apple Final Cut Pro, Adobe Premiere, and Quantel, among others. The XT3 multiple media transfer process fulfills the most complex post-production requirements such as feed streaming and the ability to edit while recording. The server integrates seamlessly into Media Asset Management systems as well.

Media available on the XT3 can be made immediately available on any of the new media entertainment devices through EVS' media repurposing tools or third-party systems, so you can deliver your production via the Web, PDAs, mobile phones, or any other device.

XT3 servers can be supplied with EVS' XTAccess software, which handles on-the-fly transcoding, re-wrapping, and media conforming. These steps are managed automatically and transparently and are fully compliant with all non native formats.

Scalability & Upgrades

Expanding the XT3 production workflow to fit your production needs is a simple and hassle-free process. EVS professionals are readily available to advise you on how to boost your workflow, whether it involves adding more I/O ports or upgrading from SD to HD with multiple configurations. Distributed storage for massive online access and scalable near-line storage means that you never run out of capacity. And it's always possible to add new servers to increase the number of in/out channels, transfer capacities, bandwidth, etc.

Controllers

Control at your Fingertips

LSM

Present in nearly all OB production units in the world, the LSM controller has become a reliable standard for live control. Intuitive, fast, and complete, it places the action at your fingertips, bringing you a whole new range of possibilities.

IP.Director

IPDirector is a complete suite of production management applications that allows users to easily ingest, log, manage, search, track, edit, create clips and highlights, browse, delay, control, and ultimately playout any video or audio content instantly.

MPlay

MPlay is an intuitive remote control system that is used for the playout of clips, playlists and graphics.
All MPlay functions are fully configurable with IPDirector software.

BEPlay

Robust and reliable, the IPDirector-compatible BEPlay Remote is a totally configurable remote controller for reviewing or editing content.

XT3

Video System

- XT3 server available as HD/SD or SD with “HD Ready”
- Up to 8 HD/SD video channels
- Full 3D/1080p support (3G/Dual link), max. 6 channels (DualPower technology)
- HD-SDI: SMPTE 292M, 10-bit; 1080i 50/59.94Hz; 720p 50/59.94Hz
- Pass-through of SMPTE 334M ancillary data
- Dual-link HD SDI: SMPTE 372M; 1080p 50/59.94Hz; Full 3D 1080i 50/59.94Hz & 720p 50/59.94Hz
- 3Gbps SDI: SMPTE 424M (level B); 1080p 50/59.94Hz; Full 3D 1080i 50.59.94Hz & 720p 50/59.94Hz
- SDI: SMPTE 259M, ITU-R601, 10-bit; 625i 50Hz; 525i 59.94Hz
- Full frame synchronizer on each input
- Super Motion support (double and triple speed) in SD, HD and Full 3D
- Mix/wipe effects on each playback channel
- Built-in downconverter with broadcast quality for each video channel (input & output)
- 1 monitoring output with switchable super-imposed timecode and channel status per video channel: 1 x HD-SDI or SDI (software switchable)
- New hardware with increased internal bandwidth: over 3Gbps

Video HD

- M-JPEG – User selectable bitrate 20-360Mbps
- Avid DNxHD® (120/145Mbps)
- Avid DNxHD® High Level (185/220Mbps, 8-bit and 10-bit)
- VC-3 (SMPTE 2019-1; Avid-compatible) 100Mbps
- Apple ProRes® 4:2:2 (120/145Mbps)
- Apple ProRes® 4:2:2 HQ (185/220Mbps, 8-bit and 10-bit)
- MPEG-2 intra – User selectable bitrate 20-360Mbps
- DVCPRO HD
- AVC-Intra Class 100

Video SD

- M-JPEG – User selectable bitrate 8-100Mbps
- IMX D-10 (SMPTE 356M) 30/40/50Mbps
- DVCPRO 50

Audio System

- Up to 96 uncompressed audio tracks at 20 or 24 bits 48KHz
- Sample rate conversion at input from 25-55KHz to 48KHz
- Audio level adjustment at input and output
- Built-in audio router
- Scrub audio support
- Dolby-E® support (pass-through and cut edit)
- Analog Balanced: 8 inputs (4 pairs) + 8 outputs (4 pairs) on XLR or DB15 (110 Ω balanced) + 4 monitoring outputs (2 pairs) on XLR (110 Ω balanced)
- Discrete AES/EBU (SMPTE 272M): 16 inputs (8 pairs) + 16 outputs (8 pairs) on XLR (110 Ω balanced) or BNC (75 Ω unbalanced)
- Embedded: up to16 audio channels per video channel on 75 Ω BNC; SD: SMPTE 259M; HD: SMPTE 299M

Multiviewer

- Up to 8 channels
- Digital output:
  - 1 HD SDI
  - 1 SD SDI
- Analog output:
  - HD YUV / HD RGBHV / SD Y/C & composite (software switchable)

Disk Storage

- Internal storage: 6 or 12 x SAS 300GB fixed mounting or hot swap disks
- External storage, 2RU external disk array (24 hot swap disks per 2RU array, redundant power supply);
- Several external disk arrays can be cascaded for extended storage capacity
- Internal & external disk arrays can be used simultaneously
- Maximum capacity: 84 x 300GB (up to 20 TB of net capacity)

Recording Capacity
(HD at 100Mbps with 8 audio tracks)

- Up to 381 recording hours in RAID 4+1 or RAID 5+1 with hot spare disks

Recording Capacity
(SD at 50Mbps with 4 audio tracks)

- Up to 762 recording hours in RAID 4+1 or RAID 5+1 with hot spare disks

Genlock

- Tri-Level Sync and Analog Black & Burst
- 2 BNC, 75 Ω with loop-through

Timecode

- LTC: SMPTE12M; 1 input + 1 output on XLR (110 Ω balanced)
- HD-SDI: RP188 (HANC VITC1, HANC VITC2, HANC LTC)
- SDI: SMPTE 266M (VITC in VBI)

Networking

- XNet[2] 1.5 Gbps in & out on BNC (compatible with future XNet[3] 3Gbps SDTI network)
- XNet 540Mbps in & out on BNC
- 2 x Gigabit Ethernet on RJ45 (import/export of audio/video files) – Jumbo Frames 9000 bytes

Controls

- Ports: 6 x RS422 (6RU chassis); 4 x RS422 (4RU chassis); 2 x RS232; 12 x GPI (4 in, 4 out, 4 configurable)
- Protocols: Harris VDCP; Odetics; Sony BVW75; Thomson XtenDD35; EVS AVSP
- 1 x Ethernet on RJ45 (maintenance, EVS LinX API, SNMP)

Mechanical Specifications

- 19-inch enclosure with redundant power supply (hot swap)
- 4RU - Size (HxDxW): 177 x 692 x 445 mm/7” x 27.2” x 17.5”
- 6RU - Size (HxDxW): 270 x 692 x 445 mm/10.6” x 27.2” x 17.5”

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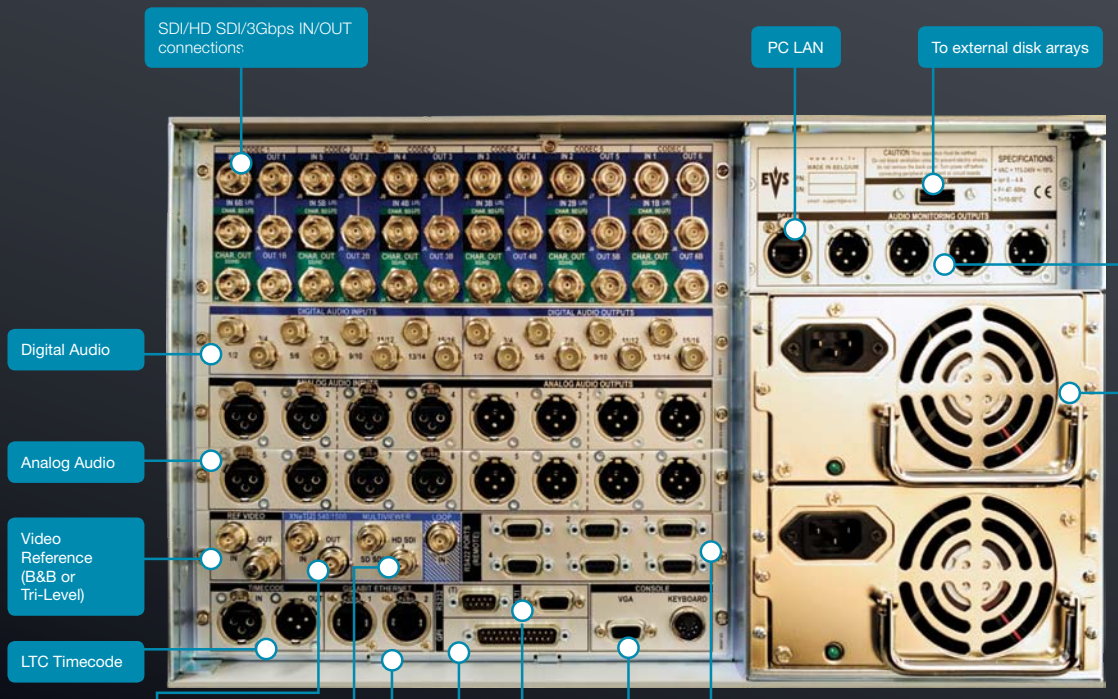
6RU model

	XT3 6RU	XT3 4RU
HDD max number (internal)	12	6
HDD mounting	Fixed or Hot-Swap	Fixed
Audio codec	96-ch	96-ch
Max. HD/SD channels	4 x 550Mbps 6 x 500Mbps 8 x 370Mbps	4 x 550Mbps 7 x 425Mbps
Max. 3D channels	6	4
Max. 1080p channels	6	4
Max. audio	6 x 16 audio 8 x 8 audio	4 x 16 audio 7 x 8 audio

6RU model



EVS

To learn more about EVS go to www.evs.tv

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Customer Support & Training

Our clients range from TV stations to video equipment rental companies and production houses worldwide. EVS' key priority is to make sure that its clients keep performing at the highest possible level. We listen to our customers, identify operating workflows, anticipate needs, and suggest effective and reliable solutions, so that they in turn can offer top-quality productions to millions of TV viewers across the globe.

EVS is dedicated to making sure its products are functioning in a way that meets your needs and expectations. We offer technical support 24/7 from each of our regional offices, so you can rest assured that someone will always be available to answer any question that may arise.

All members of EVS' technical support team are qualified technicians with a solid background in broadcasting. They understand your requirements and can provide you with the best solution available.

Do you want to learn how to operate EVS systems and applications or enhance your skills in using our tools?

EVS Training offers a series of courses on how to operate its products, taught in-house by industry professionals. Some of the training sessions are conducted by the EVS team via a Web interface, so that you get hands-on instruction even at a distance. EVS User Guides and technical documents are available free-of-charge on our Website.

Corporate

Headquarters
+32 4 361 7000

North & Latin America

Headquarters
+1 973 575 7811

Asia & Pacific

Headquarters
+852 2914 2501

Other regional offices

available at
www.evs.tv/contact

To learn more about EVS go to www.evs.tv

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